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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A <u>computer-implemented</u> method of collecting statistics in a database management system comprising a plurality of collection objects <u>having a plurality of tables</u>, at least one <u>particular collection object</u> of the plurality of collection objects comprising <u>a plurality of particular tables of the plurality of tables at least one table</u>, comprising:

receiving a workload comprising a plurality of database queries referencing the plurality of tables, at least two of the database queries that are different referencing a same table of the plurality of tables;

for each database query of the plurality of database queries of the workload:

_______identifying query statistics for said each database query of the plurality of

database queries, the query statistics comprising a number of references to at least one table

of said each database query and a number of occurrences of said each database query; and

________consolidating, for said each database query, the query statistics for the

database queries to provide consolidated statistics comprising at least one cumulative table

score for said at least one table, respectively, wherein said at least one cumulative table score

for said at least one table is based on a previous at least one cumulative table score, if any, for

said at least one table and a product of the number of references to said at least one table of

said each database query and the number of occurrences of said each database query; and

generating a plurality of at least one statistics collection tasks task to collect database statistics to be used by an optimizer based on the consolidated statistics, the plurality of statistics collection tasks to collect the database statistics on the plurality of tables referenced by the plurality of database queries of the workload, the plurality of statistics collection tasks

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being based on a plurality of collection objects comprising the plurality of tables referenced

by the plurality of database queries of the workload, a plurality of collection object scores are

determined for the plurality of collection objects comprising the plurality of tables referenced

by the plurality of database queries of the workload, each collection object score for each

collection object is based on said at least one cumulative table score for said at least one table

of said each collection object, wherein the plurality of statistics collection tasks are ordered

based on the plurality of collection object scores.

Claim 2 (canceled).

Claim 3 (canceled).

Claim 4 (previously presented): The method of claim 1 wherein the collection objects are

table spaces.

Claim 5 (canceled).

Claim 6 (canceled):

Claim 7 (currently amended): The method of claim [[6]] 1 wherein the a least one cumulative

table score is also based on, at least in part, a cost of the database queries referencing said at

least oneeach table.

Claim 8 (currently amended): The method of claim 1 wherein the query statistics comprise

column information, and when a column specified in the column information is part of an

index, generating an index portion of the at least one statistics collection task to collect

database statistics for that column.

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Claim 9 (previously presented): An article of manufacture comprising a computer usable storage medium embodying one or more instructions executable by a computer for performing a method of collecting statistics in a database management system comprising a plurality of collection objects having a plurality of tables, at least one particular collection object of the plurality of collection objects comprising a plurality of particular tables of said plurality of tables at least one table, the method comprising:

receiving a workload comprising a plurality of database queries <u>referencing the</u>

<u>plurality of tables</u>, at least two of the database queries that are different referencing a same table of the plurality of tables;

________for each database query of the plurality of database queries of the workload:
_________identifying query statistics for said each database query of the plurality of
database queries, the query statistics comprising a number of references to at least one table
of said each database query and a number of occurrences of said each database query; and
__________consolidating, for said each database query, the query statistics for the
database queries to provide consolidated statistics comprising at least one cumulative table
score for said at least one table, respectively, wherein said at least one cumulative table score
for said at least one table is based on a previous at least one cumulative table score, if any, for
said at least one table and a product of the number of references to said at least one table of
said each database query and the number of occurrences of said each database query; and

generating a plurality of at least one statistics collection tasks to collect database statistics to be used by an optimizer based on the consolidated statistics, the plurality of statistics collection tasks to collect the database statistics on the plurality of tables referenced by the plurality of database queries of the workload, the plurality of statistics collection tasks being based on a plurality of collection objects comprising the plurality of tables referenced by the plurality of database queries of the workload, a plurality of collection object scores are determined for the plurality of collection objects comprising the plurality of tables referenced by the plurality of database queries of the workload, each collection object score for each collection object is based on said at least one cumulative table score for said at least one table

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of said each collection object, wherein the plurality of statistics collection tasks are ordered

based on the plurality of collection object scores.

Claim 10 (canceled).

Claim 11 (canceled).

Claim 12 (previously presented): The article of manufacture of claim 9 wherein the collection

objects are table spaces.

Claim 13 (canceled).

Claim 14 (canceled).

Claim 15 (currently amended): The article of manufacture of claim [[14]] 9 wherein the at

<u>least one cumulative</u> table score is also based on, at least in part, a cost of the <u>database</u>

queries referencing said at least one each table.

Claim 16 (currently amended): The article of manufacture of claim 9 wherein the query

statistics comprise column information, and when a column specified in the column

information is part of an index, generating an index portion of the at least one statistics

collection task to collect database statistics for that column.

Claim 17 (currently amended): An apparatus for collecting statistics in a database

management system comprising a plurality of collection objects having a plurality of tables,

at least one particular collection object of the plurality of collection objects comprising a

plurality of particular tables of the plurality of tablesat least one table, comprising:

a processor; and

a memory storing one or more instructions that:

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receive a workload comprising a plurality of database queries referencing the plurality of tables, at least two of the database queries that are different referencing a same table of the plurality of tables; for each database query of the plurality of database queries of the workload: identify query statistics for said each database query of the plurality of database queries, the query statistics comprising a number of references to at least one table of said each database query and a number of occurrences of said each database query; and consolidate, for said each database query, the query statistics for the database queries to provide consolidated statistics comprising at least one cumulative table score for said at least one table, respectively, wherein said at least one cumulative table score for said at least one table is based on a previous at least one cumulative table score, if any, for said at least one table and a product of the number of references to said at least one table of said each database query and the number of occurrences of said each database query; and generate at least one a plurality of statistics collection tasks task to collect database statistics to be used by an optimizer based on the consolidated statistics, the plurality of statistics collection tasks to collect the database statistics on the plurality of tables referenced by the plurality of database queries of the workload, the plurality of statistics collection tasks being based on a plurality of collection objects comprising the plurality of tables referenced by the plurality of database queries of the workload, a plurality of collection object scores are determined for the plurality of collection objects comprising the plurality of tables referenced by the plurality of database queries of the workload, each collection object score for each collection object is based on said at least one cumulative table score for said at least one table of said each collection object, wherein the plurality of statistics collection tasks are ordered based on the plurality of collection object scores. Claim 18 (canceled). Claim 19 (canceled).

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Claim 20 (previously presented): The apparatus of claim 17 wherein the collection objects are tablespaces.

Claim 21 (new): The method of claim 1 wherein the at least one cumulative table score represents a total number of references to said at least one table by the plurality of database queries of the workload.

Claim 22 (new): The method of claim 1 wherein said query statistics further comprise a number of references to at least one index of referenced by said each database query of the workload:

wherein said consolidating, for said each database query, the query statistics to provide the consolidated statistics comprises determining at least one cumulative index score for the at least one index referenced by said each database query, respectively, the at least one cumulative index score being based on a previous at least one cumulative index score, if any, for said at least one index and a product of the number of references to said at least one index and the number of occurrences of said each database query;

wherein said generating said at least one statistics collection task also determines the collection object score for the collection object that contains any index referenced by said each database query based on the cumulative index score for that index.

Claim 23 (new): The method of claim 1 wherein said query statistics further comprise a number of references to at least one column-group of said each query of said workload;

wherein said consolidating, for said each database query, the query statistics to provide the consolidated statistics comprises determining at least one cumulative column-group score for the at least one column-group referenced by said each database query, respectively, said at least one cumulative column-group score being based on a previous at least one cumulative column-group score, if any, for said at least one column-group and a product of the number of references to said at least one column-group and the number of occurrences of said each database query; and

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wherein said generating said at least one statistics collection task also determines the collection object score for the collection object that contains any table comprising any column-group referenced by said each database query based on the cumulative column-group score for that column-group.

Claim 24 (new): The method of claim 1 wherein said query statistics further comprise a number of references to at least one column of said each query of said workload;

wherein said consolidating, for said each database query, the query statistics to provide the consolidated statistics comprises determining at least one cumulative column-group score for the at least one column referenced by said each database query, respectively, said at least one cumulative column score being based on a previous at least one cumulative column score, if any, for said at least one column and a product of the number of references to said at least one column and the number of occurrences of said each database query; and

wherein said generating said at least one statistics collection task also determines the collection object score for the collection object that contains any table comprising any column referenced by said each database query based on the cumulative column score for that column.

Claim 25 (new): The article of manufacture of claim 9 wherein the at least one cumulative table score represents a total number of references to said at least one table by the plurality of database queries of the workload.

Claim 26 (new): The article of manufacture of claim 9 wherein said query statistics further comprise a number of references to at least one index of referenced by said each database query of the workload;

wherein said consolidating, for said each database query, the query statistics to provide the consolidated statistics comprises determining at least one cumulative index score for the at least one index referenced by said each database query, respectively, the at least one cumulative index score being based on a previous at least one cumulative index score, if any,

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for said at least one index and a product of the number of references to said at least one index and the number of occurrences of said each database query;

wherein said generating said at least one statistics collection task also determines the collection object score for the collection object that contains any index referenced by said each database query based on the cumulative index score for that index.

Claim 27 (new): The article of manufacture of claim 9 wherein said query statistics further comprise a number of references to at least one column-group of said each query of said workload;

wherein said consolidating, for said each database query, the query statistics to provide the consolidated statistics comprises determining at least one cumulative column-group score for the at least one column-group referenced by said each database query, respectively, said at least one cumulative column-group score being based on a previous at least one cumulative column-group score, if any, for said at least one column-group and a product of the number of references to said at least one column-group and the number of occurrences of said each database query; and

wherein said generating said at least one statistics collection task also determines the collection object score for the collection object that contains any table comprising any column-group referenced by said each database query based on the cumulative column-group score for that column-group.

Claim 28 (new): The article of manufacture of claim 9 wherein said query statistics further comprise a number of references to at least one column of said each query of said workload;

wherein said consolidating, for said each database query, the query statistics to provide the consolidated statistics comprises determining at least one cumulative column-group score for the at least one column referenced by said each database query, respectively, said at least one cumulative column score being based on a previous at least one cumulative column score, if any, for said at least one column and a product of the number of references to said at least one column and the number of occurrences of said each database query; and

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wherein said generating said at least one statistics collection task also determines the collection object score for the collection object that contains any table comprising any column referenced by said each database query based on the cumulative column score for that column.

Claim 29 (new): The apparatus of claim 17 wherein said query statistics further comprise a number of references to at least one index of referenced by said each database query of the workload;

wherein said consolidating, for said each database query, the query statistics to provide the consolidated statistics comprises determining at least one cumulative index score for the at least one index referenced by said each database query, respectively, the at least one cumulative index score being based on a previous at least one cumulative index score, if any, for said at least one index and a product of the number of references to said at least one index and the number of occurrences of said each database query;

wherein said generating said at least one statistics collection task also determines the collection object score for the collection object that contains any index referenced by said each database query based on the cumulative index score for that index.

Claim 30 (new): The apparatus of claim 17 wherein said query statistics further comprise a number of references to at least one column of said each query of said workload;

wherein said consolidating, for said each database query, the query statistics to provide the consolidated statistics comprises determining at least one cumulative column-group score for the at least one column referenced by said each database query, respectively, said at least one cumulative column score being based on a previous at least one cumulative column score, if any, for said at least one column and a product of the number of references to said at least one column and the number of occurrences of said each database query; and wherein said generating said at least one statistics collection task also determines the collection object score for the collection object that contains any table comprising any

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column referenced by said each database query based on the cumulative column score for that column.